

IN THE CLAIMS

1. (Currently Amended) A method for manufacturing a golf ball, comprising:
obtaining a solid core having a compression of about 75 or less;
cooling said core, wherein said core has a first effective modulus at room temperature,
and wherein said cooling step causes the core effective modulus to increase by about 5 to about
40 percent; and
forming a thin layer of material around the core [.] ;
wherein a time delay between cooling said core and forming the thin layer is between
about 10 and about 30 seconds.
2. (Original) The method of claim 1, wherein said core has an outer diameter of about 1.55
inches or greater.
3. (Original) The method of claim 2, wherein the step of forming a thin layer or material
around the core comprises placing the core in a mold and injection molding layer material
around the core.
4. (Original) The method of claim 3, wherein the injection molded layer material contacts
the cooled core from about 10 to about 50 seconds after said cooled core is placed in said mold.
- 5-7. (Cancelled)
8. (Original) The method of claim 1, wherein said core has a first diameter at room
temperature, and wherein said cooling step causes the core diameter to be reduced from about
0.3 to about 5 percent prior to forming said thin layer of material around the core.
9. (Original) The method of claim 1, wherein said core has a first effective modulus at
room temperature, and wherein said cooling step causes the core effective modulus to increase
above about 3,000 psi.

10. (Original) The method of claim 1, further comprising the step of using a dehumidification device to reduce the accumulation of moisture on the cooled core.
 11. (Original) The method of claim 1, further comprising the step of substantially removing moisture from the surface of the cooled core prior to forming the thin layer.
 12. (Original) The method of claim 2, wherein said core has a COR of about 0.790 or greater at an inbound velocity of 125ft/sec prior to cooling.
 13. (Original) A method for manufacturing a golf ball, comprising:
 - obtaining a solid golf ball component;
 - cooling said golf ball component, wherein said golf ball component has a first effective modulus at room temperature, and wherein said cooling step causes the component effective modulus to increase by about 5 to about 40 percent; and
 - forming a thin layer of material around the component.
 14. (Original) The method of claim 13, wherein said golf ball component comprises a core having an outer diameter of about 1.55 inches or greater.
 15. (Original) The method of claim 14, wherein said golf ball component further comprises an inner cover layer.
 16. (Cancelled)
 17. (Original) The method of claim 13, wherein the step of forming a thin layer or material around the core comprises placing the cooled component in a mold and injection molding layer material around the component.
- 18-21. (Cancelled)

22. (Original) The method of claim 21, further comprising the step of using a dehumidification device to reduce the accumulation of moisture on the cooled component.

Please add the following new claims:

23. (New) A method for manufacturing a golf ball, comprising:
obtaining a solid golf ball component;
cooling said golf ball component, wherein said golf ball component has a first effective modulus at room temperature, and wherein said cooling step causes the component effective modulus to increase by about 5 to about 40 percent; and
forming a thin layer of material around the component;
wherein:
the time between cooling the golf ball component and forming the thin layer is between about 5 and 20 seconds;
the diameter of said golf ball component is reduced by at least 5%; and
wherein the surface temperature of the golf ball component does not increase by more than 5° F between the cooling and the forming.

24. (New) The method of claim 23, wherein the cooling is achieved using liquid nitrogen.

25. (New) The method of claim 23, wherein the surface temperature of the golf ball component does not increase by more than 10° F between the cooling and the forming.

26. (New) The method of claim 13, wherein the cooling is achieved using liquid nitrogen.

27. (New) The method of claim 13, wherein the surface temperature of the golf ball component does not increase by more than 5° F between the cooling and the forming.

28. (New) The method of claim 13, wherein the diameter of the golf ball component is reduced by at least 5%.

29. (New) The method of claim 1, wherein the diameter of the core is reduced by at least 5%.

30. (New) The method of claim 1, wherein the cooling is achieved using liquid nitrogen.